

## SEQUENCE LISTING

<110> CHUGAI SEIYAKU KABUSHIKI KAISHA

<120> Expression systems using mammalian  $\beta$ -Actin promoter

<130> C1-A0311P

<150> JP 2003-405269

<151> 2003-12-03

<160> 39

<170> PatentIn version 3.1

<210> 1

<211> 1577

<212> DNA

<213> Mus musculus

<400> 1

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1577

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&lt;211&gt; 1542

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 2

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<211> 604

<212> DNA

<213> Woodchuck hepatitis virus

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 <213> Homo sapiens

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<213> Mus musculus

<400> 5

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&lt;213&gt; Mus musculus

&lt;400&gt; 6

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&lt;210&gt; 7

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 7

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1           5           10           15

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Ser Ala Leu Thr Ile Gln Leu Ile Gln Asn His Phe Val Asp Glu Tyr
          20           25           30

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 35 40 45

Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Tyr  
 50 55 60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys  
 65 70 75 80

Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His Gln Tyr  
 85 90 95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Asp Asp Val Pro Met Val  
 100 105 110

Leu Val Gly Asn Lys Cys Asp Leu Ala Ala Arg Thr Val Glu Ser Arg  
 115 120 125

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Tyr Ile Glu Thr  
 130 135 140

Ser Ala Lys Thr Arg Gln Gly Val Glu Asp Ala Phe Tyr Thr Leu Val  
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Arg Glu Ile Arg Gln His Lys Leu Arg Lys Leu Asn Pro Pro Asp Glu  
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Ser Gly Pro Gly Cys Met Ser Cys Lys Cys Val Leu Ser  
 180 185

<210> 8

<211> 188

<212> PRT

<213> Homo sapiens

9/21

<400> 8

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20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly

35 40 45

Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Tyr

50 55 60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys

65 70 75 80

Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His His Tyr

85 90 95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Glu Asp Val Pro Met Val

100 105 110

Leu Val Gly Asn Lys Cys Asp Leu Pro Ser Arg Thr Val Asp Thr Lys

115 120 125

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Phe Ile Glu Thr

130 135 140

Ser Ala Lys Thr Arg Gln Gly Val Asp Asp Ala Phe Tyr Thr Leu Val

145 150 155 160

Arg Glu Ile Arg Lys His Lys Glu Lys Met Ser Lys Asp Gly Lys Lys

165 170 175

Lys Lys Lys Lys Ser Lys Thr Lys Cys Val Ile Met

180

185

&lt;210&gt; 9

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence : Artificially Synthesized Primer Sequence

&lt;400&gt; 9

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27

&lt;210&gt; 10

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence : Artificially Synthesized Primer Sequence

&lt;400&gt; 10

ttgtcgacga ccagcgcagc gatatcg

27

&lt;210&gt; 11

&lt;211&gt; 26

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence : Artificially Synthesized Primer Sequence

## mer Sequence

&lt;400&gt; 11

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26

&lt;210&gt; 12

&lt;211&gt; 26

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence : Artificially Synthesized Primer Sequence

&lt;400&gt; 12

aagcttggcg aactatcaag acacaa

26

&lt;210&gt; 13

&lt;211&gt; 50

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence : Artificially Synthesized Primer Sequence

&lt;400&gt; 13

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50

&lt;210&gt; 14

&lt;211&gt; 50

&lt;212&gt; DNA

&lt;213&gt; Artificial

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<210> 15

<211> 50

<212> DNA

<213> Artificial

<220>

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<210> 16

<211> 50

<212> DNA

<213> Artificial

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<210> 17

<211> 50

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 18

<211> 50

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 19

<211> 50

<212> DNA

<213> Artificial

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<210> 20

<211> 50

<212> DNA

<213> Artificial

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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 21

<211> 50

<212> DNA

<213> Artificial

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<211> 50

<212> DNA

<213> Artificial

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<210> 23

<211> 50

<212> DNA

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<210> 24

<211> 50

<212> DNA

<213> Artificial

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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 25

<211> 50

<212> DNA

<213> Artificial

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<210> 26

<211> 50

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 27

<211> 50

<212> DNA

<213> Artificial

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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 28

<211> 57

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 29

<211> 56

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<211> 30

<212> DNA

<213> Artificial

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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 31

<211> 26

<212> DNA

<213> Artificial

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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 32

<211> 25

<212> DNA

<213> Artificial

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<210> 33

<211> 22

<212> DNA

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<210> 34

<211> 27

<212> DNA

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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<211> 27

<212> DNA

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<211> 20

<212> DNA

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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 38

<211> 27

<212> DNA

<213> Artificial

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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<210> 39

<211> 27

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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27